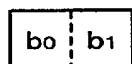


Fig. 1

SCMS

- 0 0 : COPY FREE
- 0 1 : ONE GENERARION COPY PERMITTED
- 1 0 : RESERVED
- 1 1 : COPY PROHIBITED

100% OFF

2000

100-4415

10/031023

Fig. 2

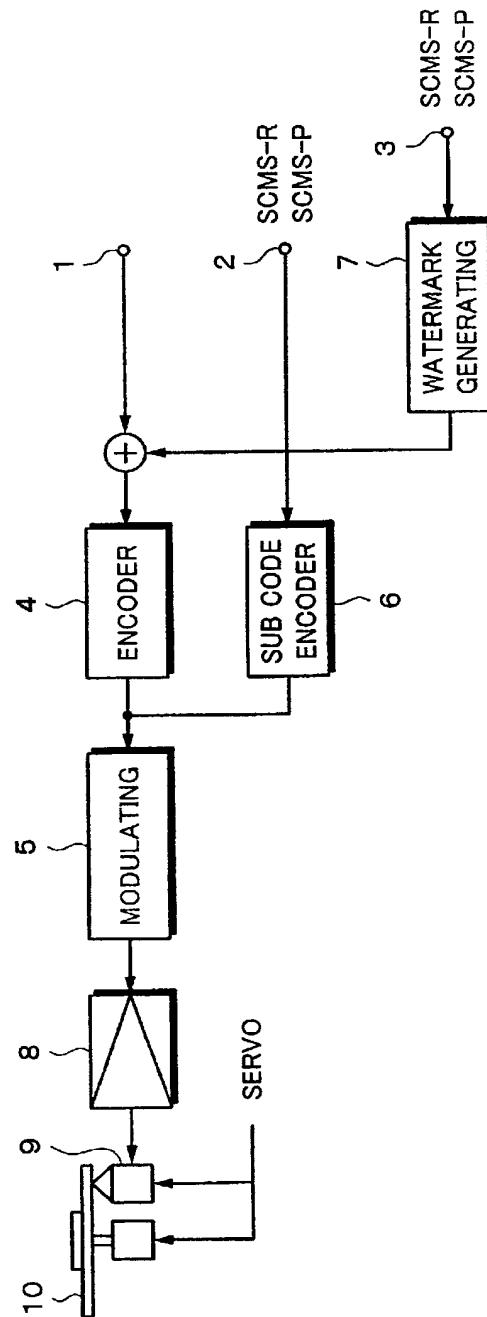


Fig. 3

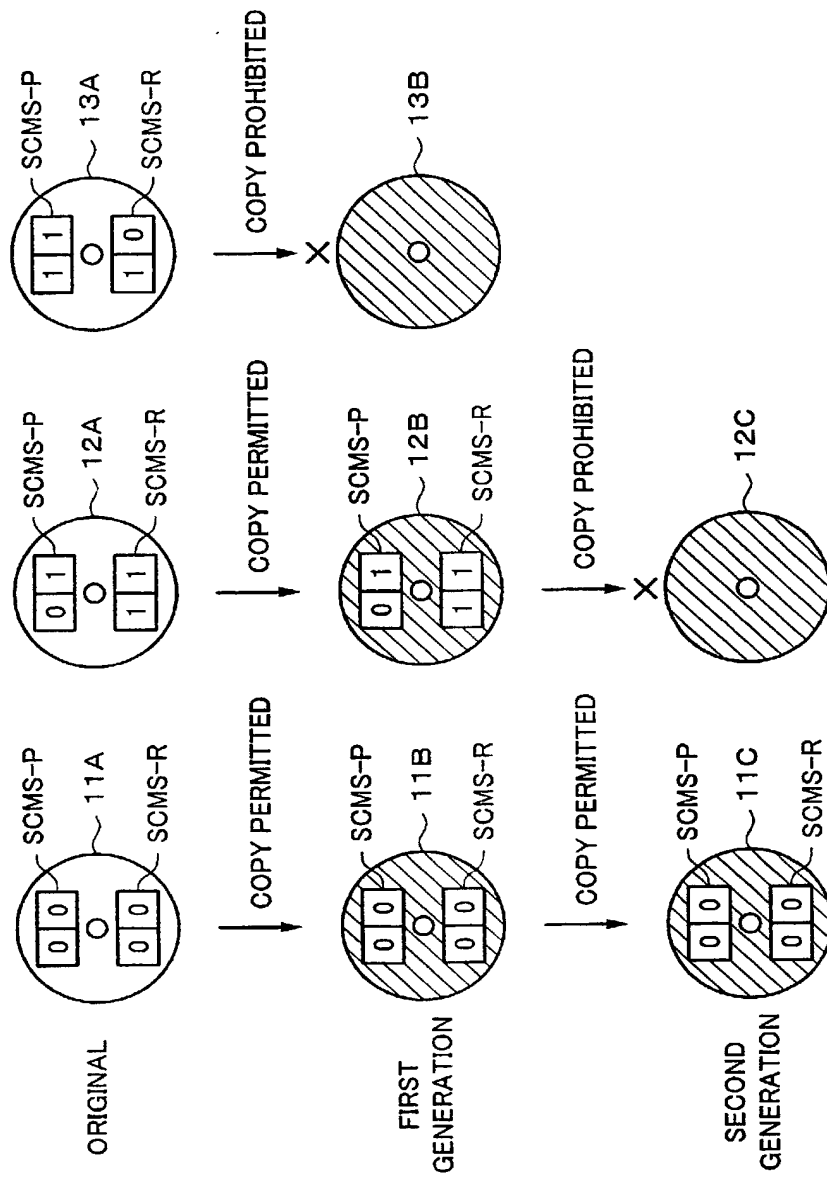
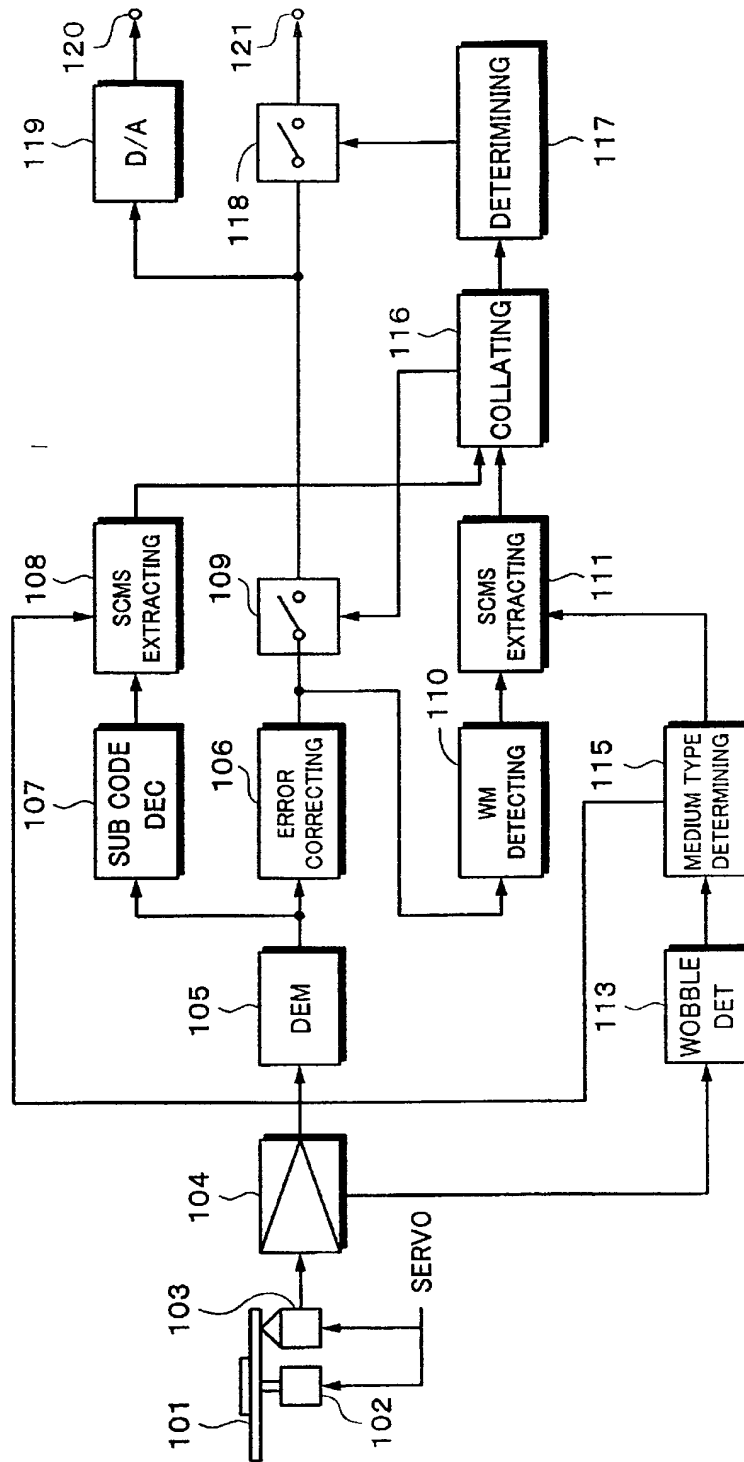
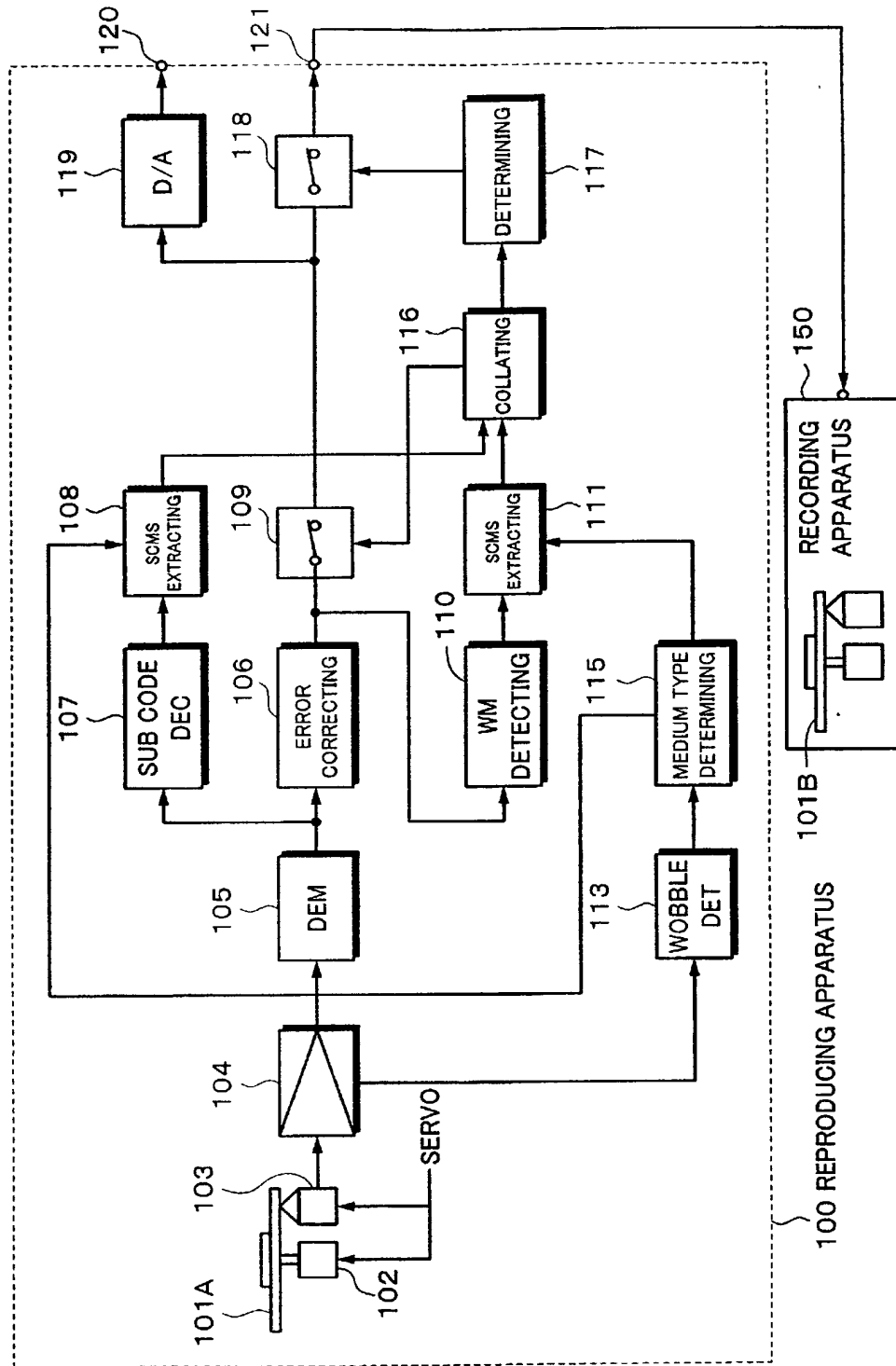


Fig. 4



20449-2201001

Fig. 5



6/21



Fig. 7

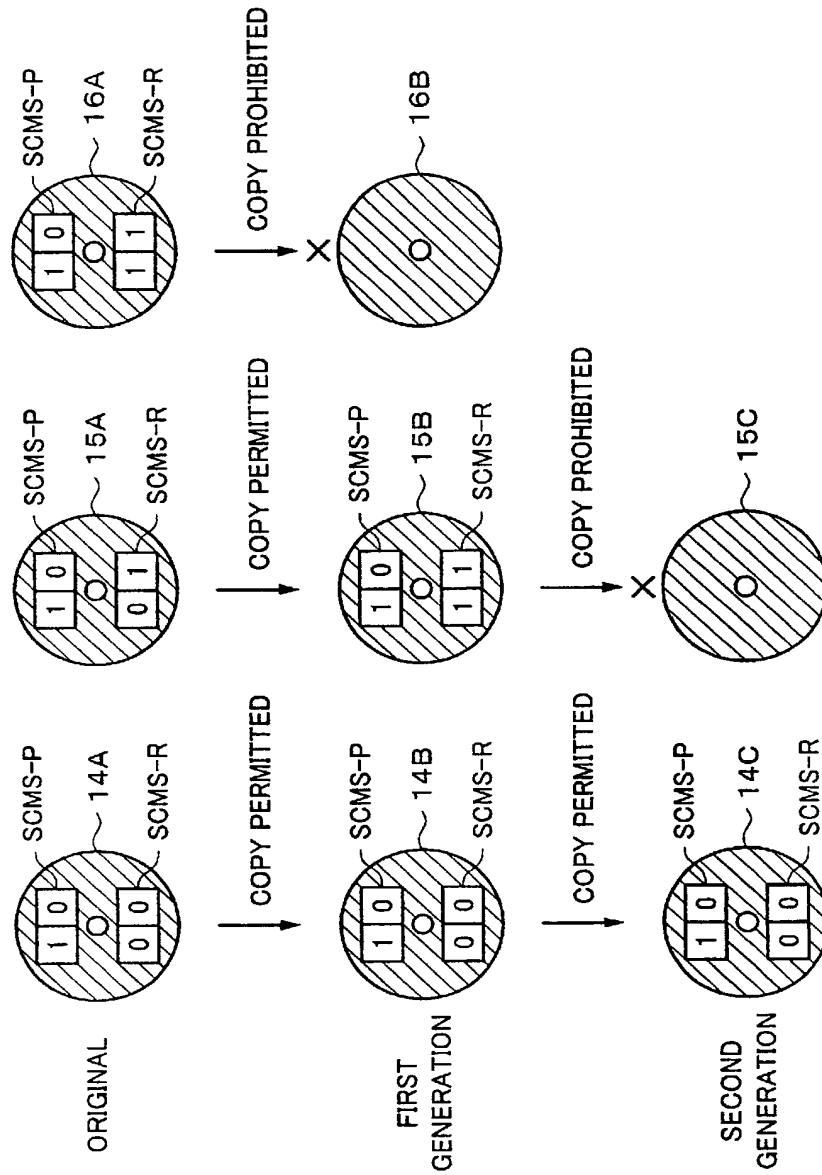
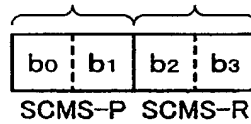


Fig. 8

FOR PRE-PRESS (ROM) FOR RECORDED (R/RW)



0 0 : COPY FREE
 0 1 : ONE GENERATION COPY PERMITTED
 1 0 : RESERVED
 1 1 : COPY PROHIBITED

Fig. 9

b0	b1	b2	b3	
0	0	0	0	ORIGINAL IS PRE-PRESS. COPY FREE.
0	1	1	1	ORIGINAL IS PRE-PRESS. ONE GENERATION COPY OF ORIGINAL PERMITTED.
1	1	1	0	ORIGINAL IS PRE-PRESS. COPY OF ORIGINAL PROHIBITED.
1	0	0	0	ORIGINAL IS RECORDED. COPY FREE.
1	0	0	1	ORIGINAL IS RECORDED. ONE GENERATION COPY OF ORIGINAL PERMITTED.
1	0	1	1	ORIGINAL IS RECORDED COPY PF ORIGINAL PROHIBITED.

Fig. 10

FOR PRE-PRESS(ROM) FOR RECORDED (R/RW)
 FOR ORIGINAL FOR NON-ORIGINAL

b ₀	b ₁	b ₂	b ₃	b ₄	b ₅	b ₆	b ₇
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0 0 0 0 : FREE REPRODUCTION

0 1 x x : CHARGED REPRODUCTION

x x : CHARGING CONDITIONS

0 0 : SOLD, ¥ 10 PER SONG

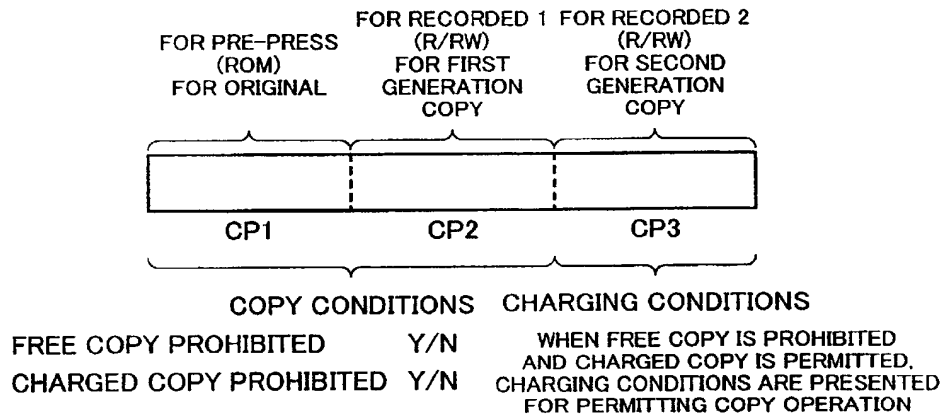
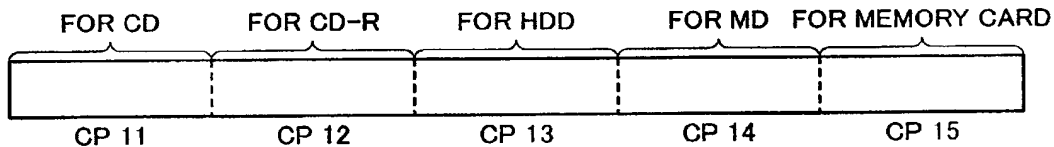
0 1 : SOLD, ¥ 100 PER SONG

1 0 : ¥ 1 FOR REPRODUCTION EVERY 30 SECONDS

1 1 : ¥ 2 REPRODUCTION EVERY 30 SECONDS

Fig. 11

REPRODUCING CONDITIONS FOR PRE-PRESS (ORIGINAL)								REPRODUCING CONDITIONS FOR RECORDED (NON-ORIGINAL)							
b0	b1	b2	b3	b4	b5	b6	b7								
0	0	0	0	0	0	0	0	FREE RERPRODUCTION							
0	0	0	0	1	0	0	0	¥ 10 PER SONG							
0	0	0	0	1	0	0	1	¥ 100 PER SONG							
0	0	0	0	1	0	1	0	¥ 1 EVERY 30 SECONDS							
.							
.							
.							
.							
1	0	0	0	1	0	0	0	¥ 10 PER SONG							
1	0	0	0	1	0	0	1	¥ 100 PER SONG							
1	0	0	0	1	0	1	0	¥ 1 EVERY 30 SECONDS							
1	0	0	0	1	0	1	1	¥ 2 EVERY 30 SECONDS							
1	0	0	0	1	1	1	1	RERPRODUCTION PROHIBITED							
.							
.							
.							
.							
.							
.							

Fig. 12**Fig. 13**

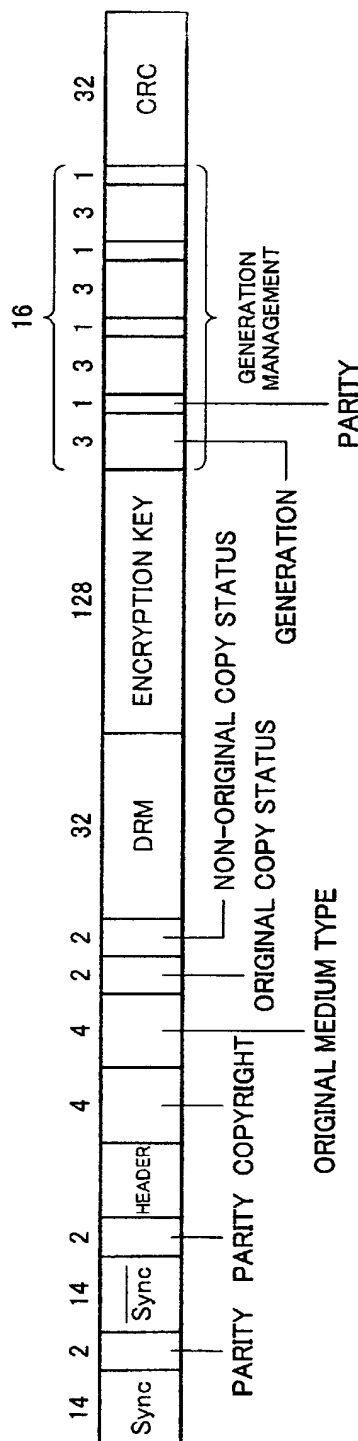
- × 0 0 0 : COPY FREE
- × 0 0 1 : ONE GENERATION COPY PERMITTED
- × 0 1 0 : FIVE COPY PERMITTED
- × 0 1 1 : ONE COPY PERMITTED
- × 1 1 0 : COPY PROHIBITED, MOVE PERMITTED
- × 1 1 1 : COPY PROHIBITED, MOVE PROHIBITED

- × : REPRODUCTION IDENTIFIER
- 0 : REPRODUCTION PERMITTED
- 1 : REPRODUCTION NOT PERMITTED

Fig. 14

0001	0111	1010	0111	0110
CP 11	CP 12	CP 13	CP 14	CP 15

Fig. 15



HEADER: 0-F (TIME CODE)

COPYRIGHT: 0000 NO COPY PROTECTION

0001 AUDIO COPY PROTECTION

0010 PICTURE COPY PROTECTION

0011 VIDEO COPY PROTECTION

0100 : RESERVED
1111

ORIGINAL MEDIUM IDENTIFICATION: 0000 ROM(Pre-Press)

0001 R

0010 RW

0011 R or RW (for EMD)

0100 : RESERVED
1111

ORIGINAL COPY STATUS
00 COPY PERMITTED
01 COPY NOT-PERMITTED
10 CHARGING/COPY PERMITTED
11 CHARGING/COPY NOT-PERMITTED

GENERATION MANAGEMENT (REPEATEDLY WRITTEN FOUR TIMES)

DRM PAYLOAD RESERVED

KEY SECURE PORTION ENCRYPTION KEY

0000 ORIGINAL
0011 FIRST GENERATION
0101 SECOND GENERATION
: :
1111 SEVENTH GENERATION

NON-ORIGINAL COPY STATUS
00 COPY PERMITTED
01 COPY NOT-PERMITTED
10 CHARGING/COPY PERMITTED
11 CHARGING/COPY NOT-PERMITTED

FREE REPRODUCTION NOT PERMITTED

CRC ERROR DETECTION (32 BITS)

Fig. 16

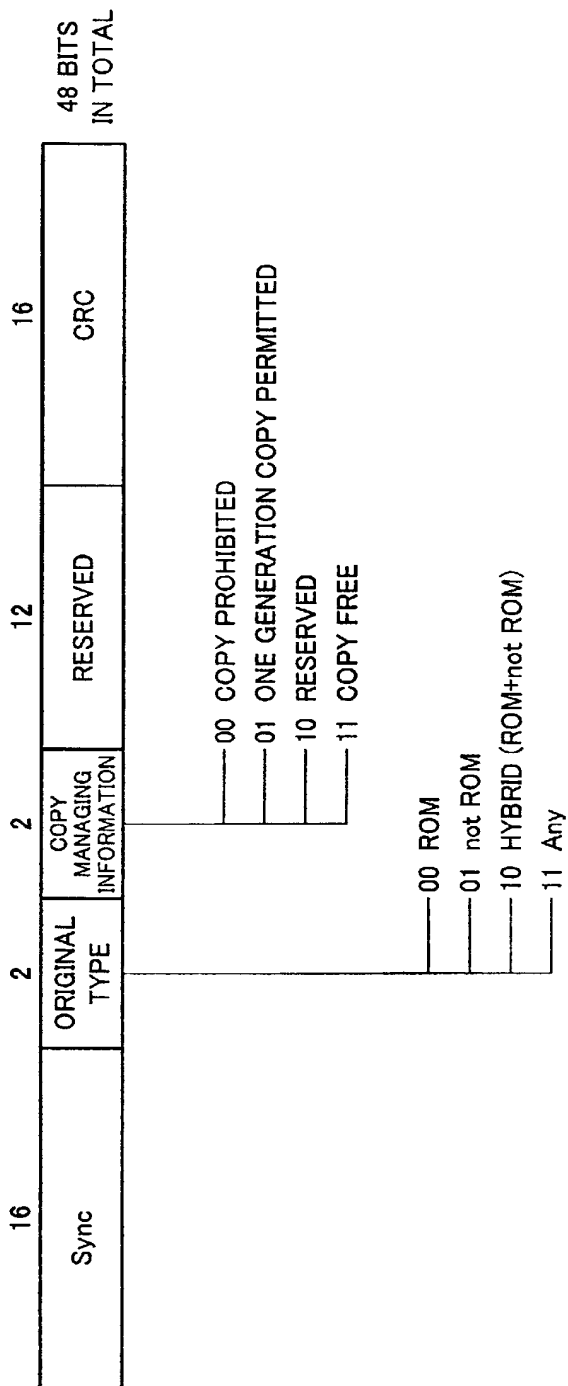


Fig. 17

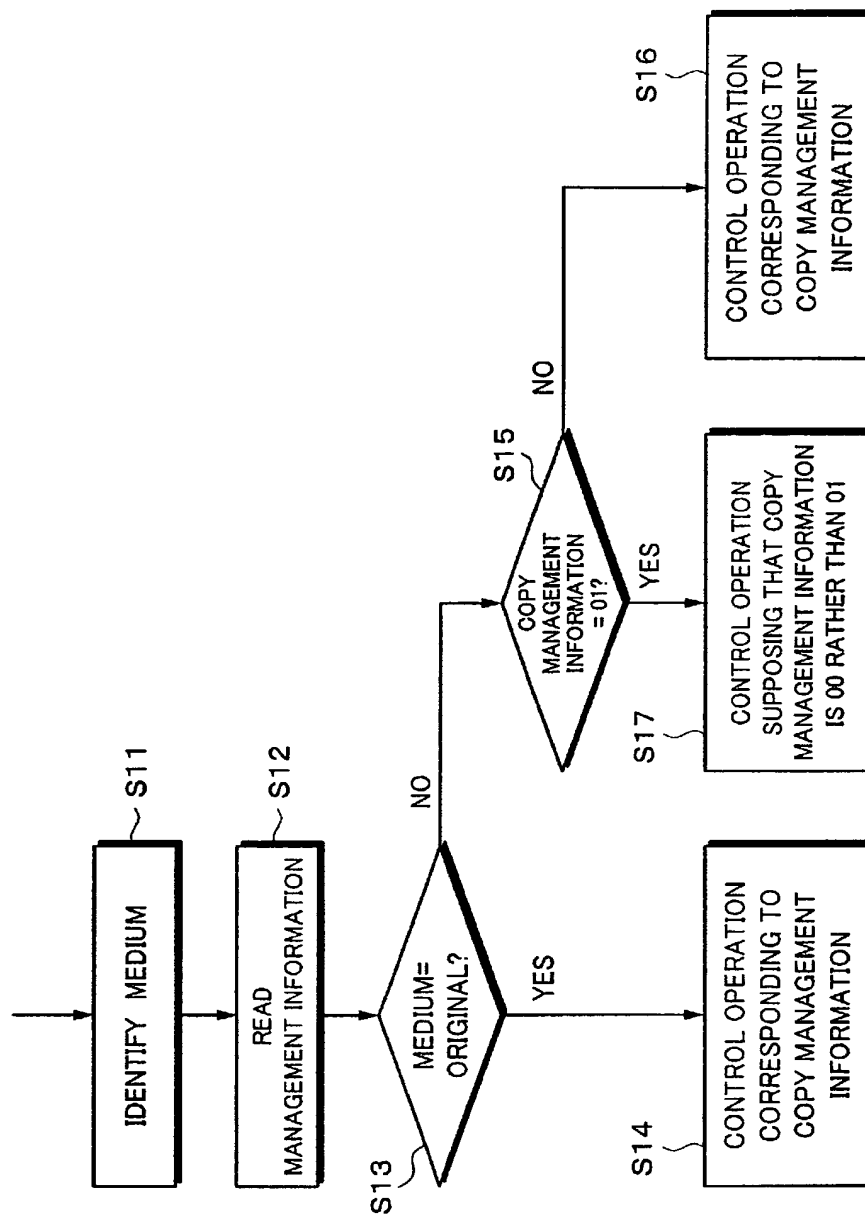


Fig. 18

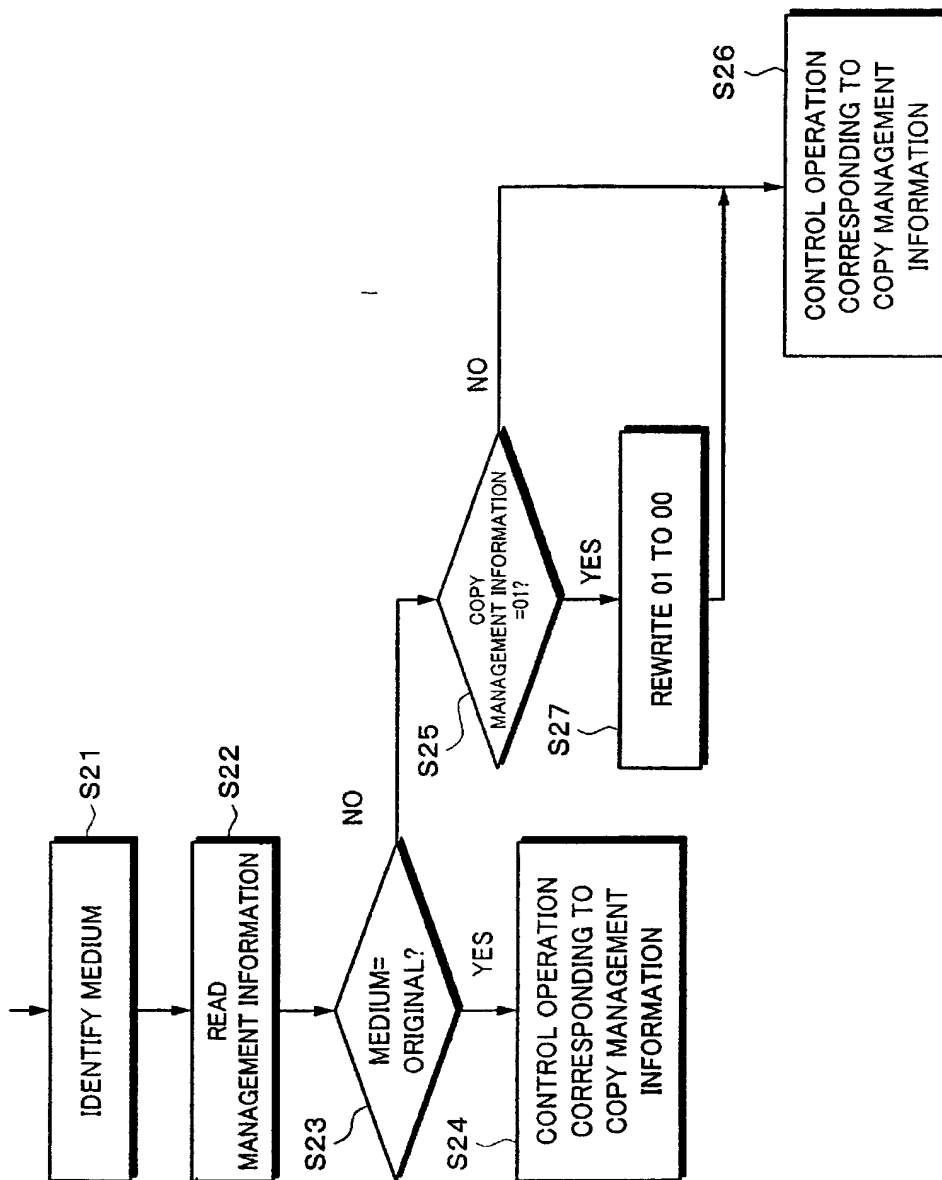


Fig. 19

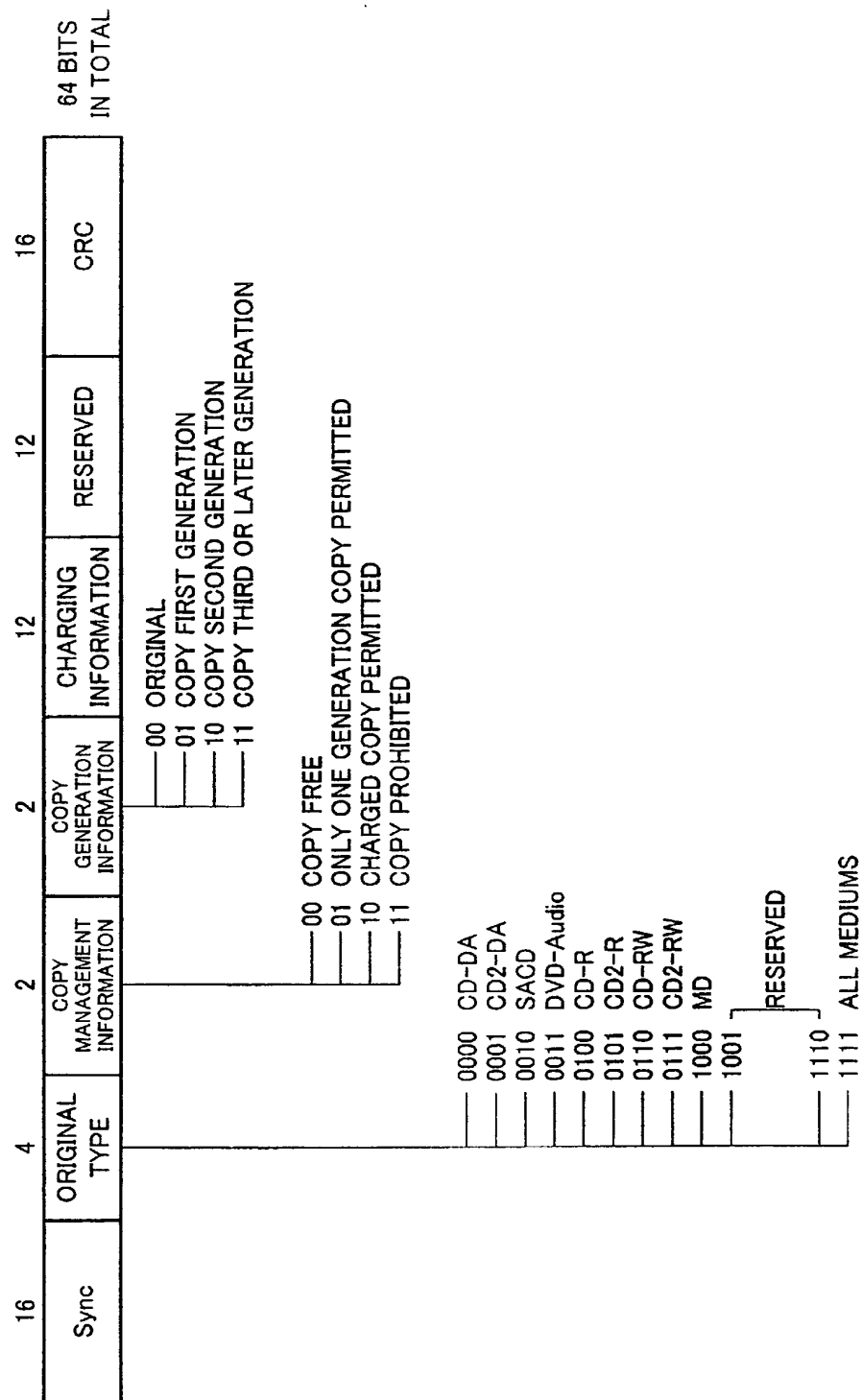


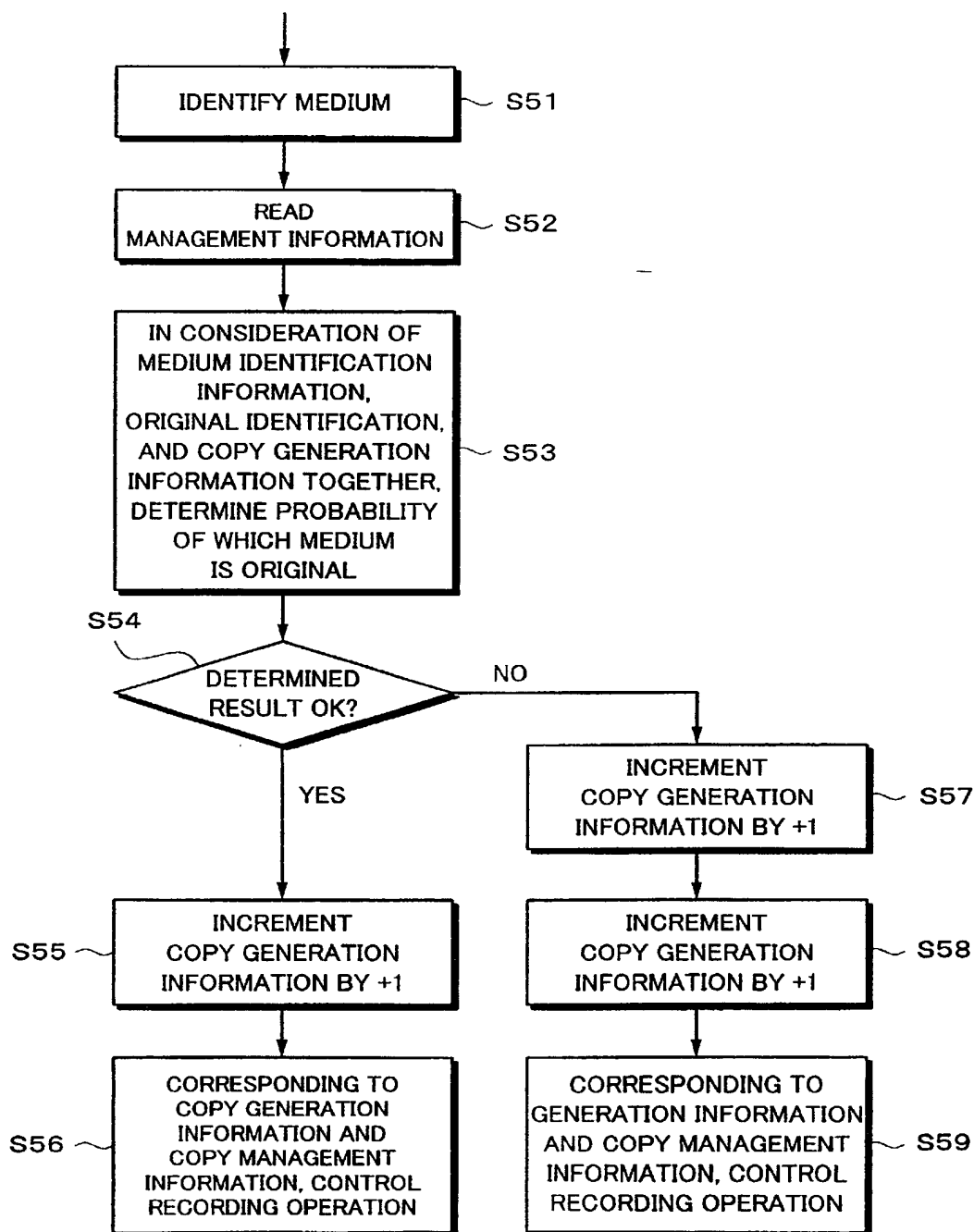
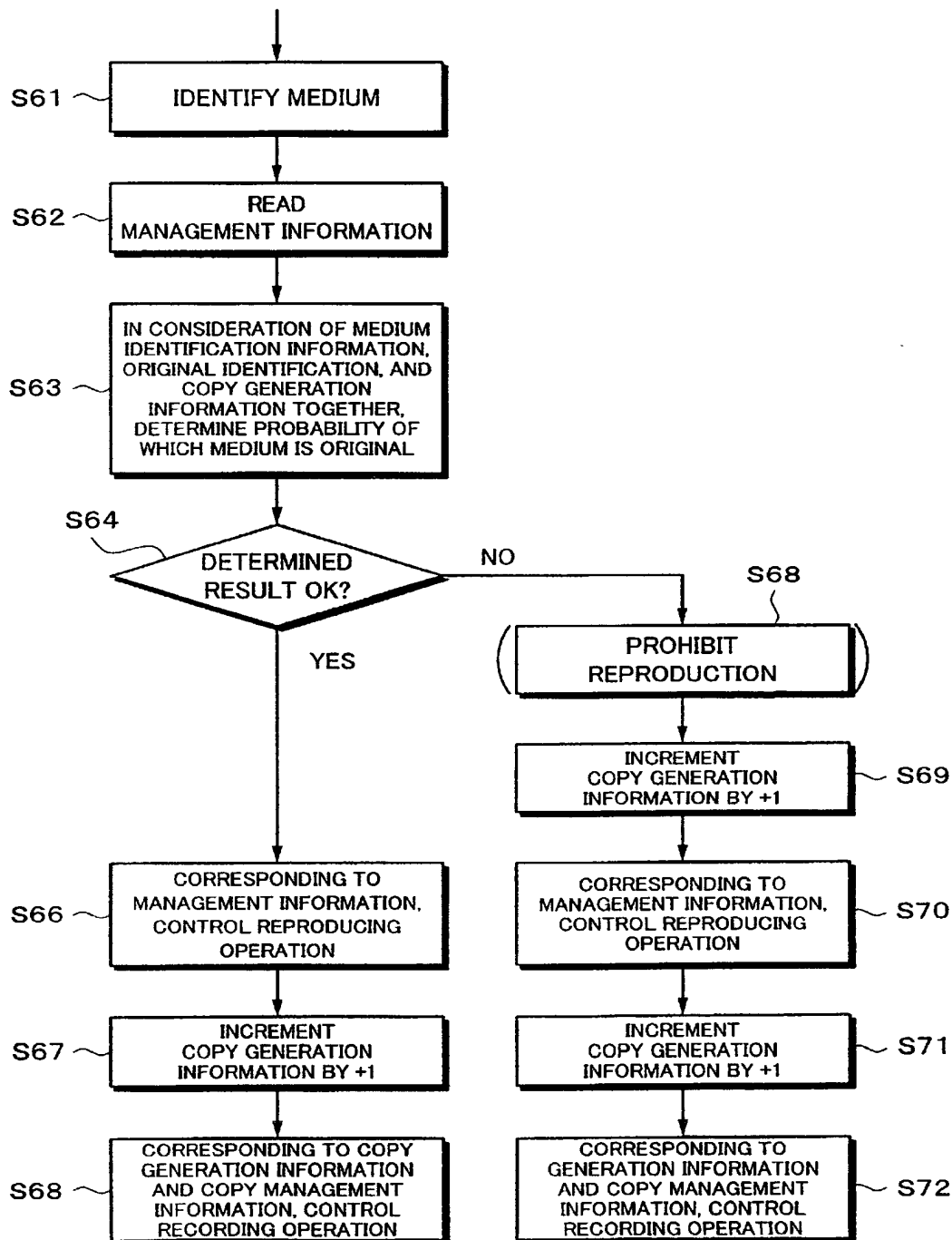
Fig. 20

Fig. 21



DESCRIPTION OF REFERENCE NUMERALS

- 4 ENCODER
- 6 SUB CODE ENCODER
- 7 WATERMARK GENERATING CIRCUIT
- 9 OPTICAL PICKUP
- 11A, 12A, 13A ORIGINAL RECORD MEDIUM
- 11B, 12B, 13B COPIED RECORD MEDIUM IN FIRST GENERATION
- 11C, 12C, COPIED RECORD MEDIUM IN SECOND GENERATION
- 100 REPRODUCING APPARATUS
- 101 OPTICAL DISC
- 103 OPTICAL PICKUP
- 107 SUB CODE DECODER
- 108 COPY MANAGEMENT INFORMATION EXTRACTING CIRCUIT
- 109 SWITCH CIRCUIT
- 110 WATERMARK DETECTING CIRCUIT
- 111 COPY MANAGEMENT INFORMATION EXTRACTING CIRCUIT
- 113 WOBBLE DETECTING CIRCUIT
- 115 MEDIUM TYPE DETERMINING CIRCUIT
- 116 COLLATING CIRCUIT
- 117 DETERMINING CIRCUIT
- 118 SWITCH CIRCUIT
- 150 RECORDING APPARATUS